## Utility

Various Techstream functions are accessed through the Utility.

#### **Utility Selection Menu**

The Utility Selection Menu can be displayed by pressing the Utility button from the Live Tab. By selecting an item and pressing the Next button, the Utility can be started. The items displayed in the Utility Selection Menu differ for each ECU.

Techstream (Ver	7.20.015) - 11157		
File Function Setup	TIS User Help		
System Select   Stor	ed Data Engine and ECT Live		
2012 Prius 2ZR.FXE	Utility Selection Menu desired Utility and then press Next button.		
B AA	All Readmess	Check Mode	~
	VIN	Reset Memory	
Trouble Codes	Secondary Air Injection Check	Evaporative System Check	
	Customize		
Data List			
Active Test			
Manitas			
indiffede			
Ubirry			
Dual Data List			
			~
	2		
	<introduction></introduction>	form Test by makes the Desidence Codes	<u>A</u>
	This function is used to confirm the result of a Rea	diness lest by reading the Readiness Codes.	
TIS Keyword			92
Print			
Close			
S000-01 Engine and ECT		Default Up	er DLC 3 🔶

Diagnosis Screen (Utility)

1 Utility List

Displays a list of utilities. Possible to select optional utilities.

2 Description of Utility

Displays an explanation of optional utilities selected from the Utility List.

Next button

Possible to start optional utilities selected from the Utility List. From the time utility is started until it is complete, Techstream is in standby status and cannot be used.

The list of Utility functions are dependent on the vehicle, and the ECU's installed. The utilities are in Wizard format. Perform the operations in accordance with the directions on the screen. Transponder Code Erasure will be introduced as an example.

#### Transponder Code Erasure Example

The Transponder Code Erasure Wizard will appear once the Next button is pushed. Perform operations in accordance with the directions on the screen. Advance to the next step by clicking the Next button. If the Cancel button is pressed, the Wizard will close.



Transponder Code Erasure 1/4 (Utility)

Perform the operations on the screen within the given time limit. In this case, the master key must be inserted in the key cylinder, the ignition switch turned ON, and the Next button pressed, all within the 120 second time limit.

ransponder Code Frasure (STR-02-00	92)	
Step	1 of 2	10
cup		
Insert a registered master and turn the ignition switch	key in t ON wit	he key cylinder hin 120 seconds,
then press Next.		
Time Remaining:	112	sec.
	18547255	and the second s
< Back	ext>	Cancel
< Back N	ext >	Cancel

Transponder Code Erasure 2/4 (Utility)

Perform the operations on the screen within the given time limit. In this case, the master key must be removed from the cylinder and the Next button pressed, all within the 10 second time limit.



Transponder Code Erasure 3/4 (Utility)

At this point the Transponder Code Erasure Wizard is normally complete. Press the Exit button to quit the Wizard.

## ×

Transponder Code Erasure 4/4 (Utility)

# Customize

It is possible to verify and change the set values for customizable items. Customizable items are divided by function into Door Lock, Security, Power Window, etc.

#### **Select Customize Function**

The Select Customize Function screen can be displayed by: 1) pressing the Customize button from the Menu on the System Selection Menu, or 2) selecting Customize from the Utility Selection Menu, then pressing the Next button. The user is able to customize from this screen.

		-	
🕐 TJS techstrean - 1	234		
File Function Setup T	15 User Help		
System Select   Stored	i Data Engine and ECT Live Customize		
2007 Camry HV 2AZ-FXE	Select Customize Function		
VIN_CODE_051_5974	Wireless Door Lock	Tilt & Telesco	~
	Security	Daar Lock	
	Slide Roof	Air Conditioner	
	Power Window	Sensor	
	Wiper	Unit conversion	
	Huminated Entry	Retractable Hardtop	
	Warning	Compass calibration	
	Light Control	Option Setup	
			×
TIS Search			
Print			
Close		<b>(</b> ) =	$\Rightarrow$
9801-02	,	Generic Exglish DLA	C2 🔹

Diagnosis Screen (Customize)

## ×

×

×

Customize function list Select the function for the target Customize setting.

Default button

Set all functions to the default value for the target Customize setting.

Customize button

Display details for the selected function in a pop-up dialog box and set the desired function.

#### Caution

When the Default button is pressed, settings will be returned to the default values and all current settings will be lost.

## **Customize Parameter select**

The Customize Parameter Select screen displays the current content for a Customize item. It is also possible to change the set values from this screen.

Customize (S601-06)						
Select Customize Parameter						
1 ІТЕМ	2		SETTING			
CAR FINDER	ON	OFF	0211110			i I
UNLOCK/2 OPER	D DOOR	D SIDE	ALL			
B WINDOW OPEN	1 TIME	2 TIMES	3 TIMES	OFF		
HAZAERD ANS BACK	ON	OFF				
INT/LGT ON/UNLK	ON	OFF				
OPEN DOOR WARN	AUTOMATIC	MANUAL				
DOWN / WIRELESS	ON	OFF				
ALARM FUNCTION	ON	OFF				
WIRELS BUZ VOL	MIN	MID 1	MID 2	MID 3	MAX	
	OFF					
Item Deceription						2
Item Description		-				
13	~	Ī				
			1	1	1	
			TIS Konteaut			
	1M		recymons.			

**Customize Dialog** 

×

#### Item Name

Displays the name designated for the Customize item. When the row for an item is selected, the background color changes.

# Customize value list

Verify the current set value for a designated customize item or designate a value change. Current set values have a blue background. Values designated to be changed have a yellow background. Values designated to be changed are not reflected in the ECU until the Apply button is clicked.

#### Item Description

Displays a description for items corresponding to a selected row in the Customize value list.

×

×

 $\times$ 

#### Print button

Prints the contents of the Customize value list.

#### Service Information Keyword button

Executes the Service Information Keyword function.

## ×

Cancel button Cancels the value designated in the Customize value list and returns the screen to the Utility Selection Menu.

×

#### Apply button

Reflects the value selected from the Customize value list in the ECU. Even after the value is reflected in the ECU, the current dialog box remains.

#### **Caution Dialog**

This screen is displayed when there is a caution for a Customize item.

## ×

**Caution Dialog** 

# **Operation History**

#### Displays a list of operation factors.

🕐 Techstream - 1081						
File Function Setup T3	S User Help					
System Select Stored	Data Hybrid Control Liv	e   Smart Access Liv	e			
2010 RX450h 2GR.FXE	Operation Histor	y the data was store	ed			
2010_RX450h_24	Elapsed Time after CPU Reset	Time & Date	Key Cycle	CPU Reset Count		
File Notes	1d 23h 57m	2010/11/22 11:14	14	2	5	
E Health Checi	-Operation History				· Standard	
E Time Stamp 2	operation History				• Expert	
Data 2-20	Certification ECU opera	tion log •				1.
Hybrid Con     ABS/VSC/T	Elapsed Time after CPU Reset	Time & Date	Key Cycle	CPU Reset Count	Parameter Name	1
EMPS	02h 03m		48	0	New Key Registration Failed	
Air Condition	01h 45m		17	3	New Key Registration Failed	
SRS Airbag	00h 00m		1	0	New Key Already Registered	
Combination	00h 00m	(*)	0	3	New Key Already Registered	
Tire Pressure						
Main Body						
E D-Door Motor						
E Smart Acces			_	-		
<ul> <li>Operation</li> </ul>						
Data 3						
Power Sourc						
Sat						-
				1	1	
Expand>>	Description					
	A new key registration #	ailura: Excent Vahirla I	DNG			
TIS Search	Prinen ney registration i	andre. Encept venture i	D HO			8
	An attempt was made to	o register a new key (ar	n unregister	ed key) by hole	ding it to the engine switch but registration was not possible due to	
Print	noise or a failing key ba	ttery.	COLUMN TAXAB			1
Back	1					
Cartos						
\$315-03					Default User DLC 3	•

Diagnosis Screen (Operation History)

Time Stamp when the Data was stored
Displays names of recorded user operations.
– Elapsed Time after CPU Reset
Shows elapsed time since the last CPU reset until the data save.
– Time & Date
Shows absolute time at the time of the data save.
– Key Cycle
Shows the number of Key Cycles at the time of the data save.
- CPU Reset Count
Shows the CPU Reset Count at the time of the data save.
2 Drop Down Menu
Shows a list of operation factors.
3 Operation History List
Displays a list of the user operations, from new to old, for the item selected in the Drop Down Menu. – Elapsed Time after CPU Reset
Shows elapsed time since the last CPU reset until the user operations.
– Time & Date
Shows calculated absolute time of the user operations.
– Key Cycle
Shows the number of Key Cycles at the time of the user operations.
- CPU Reset Count
Shows the CPU Reset Counts at the time of the user operations.
– Parameter Name

Displays names of recorded user operations.

# Description

Displays a help description for the selected operation history.

# Display Level

This function determines display level of the Operation History. The Parameter Name fields show Operation History items allowed for the selected display level.

Displays a list of operation factors of the power supply's ECU.

🕐 Techstream - 1081:							
File Function Setup TI	S Uper	Help					
System Select Stored	Data	Hybrid Control Liv	e Smart Access Live				
2010 RX450h 2GR-FXE	Ope	eration Histor Stamp when	ry the data was store	d			
2010 RX450h 21	Elap	osed Time after CPU Reset	Time & Date	Key Cycle	CPU Reset Count		
File Notes		1d 23h 57m	2010/11/22 11:14	14	2	5	
E Health Checi						Standard	
Ime Stame	Oper	ration History				C Expert	
Data 2-20	ertif	fication ECU operation	tion log •				
Hybrid Contr B ABS/VSC/TF		Elapsed Time afte CPU Reset	H Time & Date	Key Cycl	e CPU Reset Count	Parameter Name	^
E EMPS		02h 03m		48	Û	New Key Registration Failed	
E Air Condition	+					New Key Registration Failed	-
E SKS Airbag		00h 00m		0	3	New Key Already Registered	-3
Tire Pressure	-			0		Hen Key Alleauy Registereu	
Main Body							
D-Door Motor			_				
B Smart Acces							
DTC/Monit							
<ul> <li>Operation</li> </ul>							
Data 3							
H Power Sourc				_			-8
Satt							~
Expand>>	-						
	Desc	cripuon					_
TIS Search	Anes	w key registration f	ailure: Except Vehicle ID	) NG			^
	0 m at	toront was made to	o register a mau loss (ag	uncanisters	d from the bodyline	to the angles suiteb but calibration uses not enceded due to	
Print	noise	or a failing key ba	tterv.	unegistere	o ney) by nording	I to one engine switch but registration was not possible due to	
	1						3
Back							
sa16-0a	-					Detault User DLC 3	•

Diagnosis Screen (Operation Factors of the Power Supply's ECU)

## ×

Time Stamp when the Data was stored

Displays names of recorded user operations.

- Elapsed Time after CPU Reset
  - Shows elapsed time since the last CPU reset until the data save.
- Time & Date
  - Shows absolute time at the time of the data save.
- Key Cycle
  - Shows the number of Key Cycle at the time of the data save.
- CPU Reset Count
  - Shows the CPU Reset Count at the time of the data save.
- 2 Drop Down Menu

Shows a list of operation factors.

- 3 Operation History List
  - Displays a list of the user operations, from new to old, for the item selected in the Drop Down Menu.
  - Operation tree
  - Sets the factor at the top of tree.
  - Elapsed Time after CPU Reset
    - Shows elapsed time since the last CPU reset until the user operations.
  - Time & Date
    - Shows calculated absolute time of the user operations.
  - Key Cycle

- Shows the number of Key Cycles at the time of the user operations.
- CPU Reset Count
- Shows the CPU Reset Counts at the time of the user operations.
- Parameter Name
  - Displays names of recorded user operations.



Description

Displays a help description for the selected operation history.

### 

Display Level This function determines display level of the Operation History. The Parameter Name fields show Operation History items allowed for the selected display level.

# Record on Behavior

Displays a list of causes of charging operation failure.

2012 Prius PHV 22R-FXE	Charg	ge Can	icel	Curren	at Key Cycle	Current	Key Cycle ed Time
input VIN	1	.,			02004	0000	0.04.36
2012_Prius PHV File Notes	FFD Group	Code	Behavior	Т	ime and Date	Key Cycle	Elapsed Time
Plug-in Cont	01	X1000	Charge Canceled(Charge Connector Not Engaged Properly)	6/	1/2011 9:07 AM	00462	00000 02 20 8
Charge Ca	01	X1000	Charge Canceled(Charge Connector Not Engaged Properly)	6/	1/2011 9:07 AM	00462	00000.02.18.7
Data 1	01	X1000	Charge Canceled(Charge Connector Not Engaged Properly)	6/	1/2011 9:07 AM	00462	00000.02.18.7
	01	X1010	Charge Canceled(Power Failure)	6/	1/2011 9:07 AM	00462	00000.02.18.7
	01	X1010	Charge Canceled(Power Failure)	6/	1/2011 9:07 AM	00462	00000.02.18.7
	<u><u><u>01</u></u></u>	X1010	Charge Canceled(Power Failure)	6/	1/2011 9.07 AM	00462	00000.02.18.7
	02	X1030	Charge Canceled(AC Line)	6/	1/2011 9.07 AM	00462	00000 02 18 7
	92	X1030	Charge Canceled(AC Line)	6/	1/2011 9:07 AM	00462	000000218.7
	<u><u>w</u></u>	X1030	Charge Canceled(AC Line)	0/	1/2011 9:07 AM	00462	0000002187
	02	X1060	Charge Canceled(Battery Temperature)	6/	1/2011 9:07 AM	00462	00000.02.18.7
	02	V1060	Charge Canceled(Battery Temperature)	0/	1/2011 9:07 AM	00462	00000-02-18.7
	84	V1050	Charge Caliceted(Datery Temperature)	01	1/2011 9.07 AM	00462	00000.02.10.7
		X1040	Charge Delayed(Charge Control Value Low)	6/	1/2011 9.07 AM	00462	00000.02.18.7
	01	VIDAO	Charge Delayed(Charge Control Value Low)	6/	1/2011 9:07 AM	00462	00000.02.18.7
Sort							
Expand>>							
TIS Search							

Diagnosis Screen (Record on Behavior)

×

RoB List

Displays a list of RoB and Time Stamp information.

- FFD Group
  - Displays the FFD Group that corresponds to the Code.
- Code
  - Displays collected codes.
- Behavior
  - Displays the Behavior that corresponds to the Code.
- Time and Date
- Displays the time and date at the time when detection of the Code was performed.
- Key Cycle

Displays the Key Cycle at the time when detection of the Code was performed.

Elapsed Time

Displays the Elapsed Time at the time when detection of the Code was performed.

Current Key Cycle

Displays the Key Cycle included in the Current Time information.

3 Current Key Cycle Elapsed Time

Displays the Elapsed Time included in the Current Time information.



×

RoB Clear Button Clears the RoB data.

## Next Button

Switches the screen to the FFD information screen for the selected Code.

## Refresh Button

Acquires RoB information again and adds it to the event file tree of the diagnosis record tab. The RoB information acquisition result is displayed on the screen.

The code selected on the list screen for the causes of charging operation failure is displayed, the codes in the same FFD Group as the selected code are displayed, and the FFD information is displayed.

012 Prius PHV ZR-FXE	Cha Hist	rge Cancel ory			Current Key	Cycle	Curr	ent Key ( apsed Tir	Cycle ne
2012_Prives 2 File Notes	Syste FFD (	m : Plug-in Control Group : 02			02004		0	0000:04:3	6
8 Plug-in Cont	3	Decomptor	Unit	2 ad Latera	2nd Latest	3	Late	st	
≥ Charge Ca	<u> </u>	j Parameter	Unit	V1020	200 Latest	-3	- <del>2</del>	-1	
Data 1		Behavior		Charge Canceled(AC Line)	Charge Canceled(AC Line)	Ch	arge Canc	eled(AC L	ine)
		Key Cycle		00462	00462		004	462	
		Elapsed Time		00000.02:18.7	00000.02:18.7				00000.02
		Time and Date		6/1/2011 9:07 AM	6/1/2011 9:07 AM				6/1/2011 9:07 AM
		Charging Control Status		-128	-128	-128	-128	-128	-128
		Plug-in Charge Start Signal		ON	ON	ON	ON	ON	ON
		On-Board Charger Status		-93	-93	-93	-93	-93	-93
		On-Board Charger Input Voltage	V	437.0	437.0	437.0	437.0	437.0	437.0
		On-Board Charger Stopping Input Voltage	V	+13942.0	+13942.0	·13942.0	+13942.0	·13942.0	-13942.0
		Rated Electricity Power Supply	kW	-273.70	-273.70	-273.70	-273.70	-273.70	-273.70
		Current Upper Limit Value	A	-102.45	+102.45	-102.45	+102.45	+102.45	-102.45
		Charger Output Current	A	-118.14	-118.14	-118.14	-118.14	-118.14	-118.14
		Offset Value of Charger Output Current	A	-116.15	-116.15	-116.15	-116.15	-116.15	-116.15
		Charger Output Voltage	V	643.0	643.0	643.0	643.0	643.0	643.0
		Auxiliary Battery Voltage	V	0.31	0.31	0.31	0.31	0.31	0.31
		SOC	%	27	2.7	2.7	2.7	2.7	2.7
		Battery Minimum Temperature	F	-184	-184	-184	-184	-184	-184
Sort		Battery Current	A	-304.48	-304.48	-304.48	-304.48	-304.48	-304.48
Expand>>		Battery Current(High Accuracy)	A	-108.33	-108.33	-108.33	-108.33	-108.33	-108.33
		Battery Voltage	V	2442.0	2442.0	2442.0	2442.0	2442.0	2442.0
TO CHILL		Normal Charging Complete Status		Incomp	Incomp	Incomp	Incomp	Incomp	Incomp
tio Search		Push Charging Complete Status		Complete	Complete	Complet	Complet	Complet	Complet

Diagnosis Screen (Record on Behavior FFD information)



■ System Displays the system name of the record selected.

2 FFD Group

Displays the FFD Group of the record selected.

## RoB List

Displays the FFD Group information of the record selected.

- Parameter Displays parameters in the following order. 1st. Code 2nd. Behavior 3rd. Key Cycle 4th. Elapsed Time 5th. Time and Date 6th. FFD Parameters - Unit Displays unit corresponding to the parameter. - 3rd Latest Displays the content of the 3rd latest code in the relevant FFD Group. - 2nd Latest Displays the content of the 2nd latest code in the relevant FFD Group. Latest Displays the content of the latest code in the relevant FFD Group.  $\times$ Current Key Cycle Displays the Key Cycle included in the Current Time information.  $\times$ Current Key Cycle Elapsed Time Displays the Elapsed Time included in the Current Time information. Back Button

Returns the screen to the causes of charging operation failure screen.

## **Drive Recorder**

The Drive Recorder can be accessed from Drive Recorder Configure in the Function Menu, or from the Drive Recorder Setup screen on the Utility Selection Menu screen. The Drive Recorder can only be used when connected to the vehicle.

#### Drive Recorder Setup

The Drive Recorder Setup screen is a notification to the user concerning the Drive Recorder usage procedure. When the Next button is pressed, the current screen transitions to the next screen. When the Cancel button is pressed, the Drive Recorder Setup is cancelled.

Drive Recorder Setup (S602-03)	
Drive Recorder Setup (S002-03) Drive Recorder Configuration requires three steps. 1. Select Parameters to Record 2. Configure the Trigger Method 3. Set the VIM to Drive Record Mode	
<back next=""></back>	Cancel

Drive Recorder Setup Dialog

This screen explains the selection method of target data for the Drive Recorder. If the Back button is pressed, the current screen returns to the previous screen. If the Next button is pressed, the current screen moves to the next screen. When the Cancel button is pressed, the Drive Recorder Setup is cancelled.



Drive Recorder Setup Dialog

Data to be recorded using the Drive Recorder can be designated on this screen. The data displayed on the data list screen is the data that is possible to be recorded by the Drive Recorder. Just as with a normal data list screen, it is possible to use the data manager. When the OK button on the displayed screen is pressed, the current screen moves to the next screen.

3 GS450h	Parameter	Value	Unit	Parameter	Value	Uni
LEXE	Vehicle Speed		The second se	Throttle Fully Close Learn	1 2 2 2 2	-
and the second	Engine Speed			Injector (Port)		
161 mile	Calculate Load			Injection Volum (Cylinder1)		-
VIII	Vehicle Load			Fuel Pump/Speed Status		-
	MAF			Vacuum Pump	_	-
rouble Codes	Atmosphere Pressure		-	TCV Status		-
	Coolant Temp			EVAP (Purge) VSV		
Data List	Intake Air			Evap Purge Flow		-
	Ambient Temperature			Purge Density Learn Value		-
Automations	Engine Run Time			Vapor Pressure Pump		-
ACING LEST	Initial Engine Coolant Temp			Vapor Pressure (Calculated)		-
	Initial Intake Air Temp			EVAP System Vent Valve		
Monitor	Battery Voltage			EVAP Purge VSV		-
	Accelerator Position			Purge Cut VSV Duty		
Index	Accel Sens. No.1 Volt %			Target Air-Fuel Ratio		
Arrest 1	Accel Sens. No 2 Volt %			AF Lambda B1S1		
	Throttle Sensor Volt %			AFS Votage 81S1		
ual Data List	Throttl Sensor #2 Volt %			AFS Current B1S1		
	Throttle Idle Position			A/F Heater Duty #1		
	Throttle Require Position			02S B1S2		
	Throttle Sensor Position			O2S Impedance B1S2		
	Throttle Position No.1			O2 Heater B1S2		
	Throttle Position No.2		1	O2 Heater Curr Val B1S2		
	Throttle Position Command			Short FT #1		
	Throttle Sens Open Pos #1			Long FT #1		
	Throttle Sens Open Pos #2			Total FT #1		
	Throttle Motor Current		1	Fuel System Status #1		
	Throttle Motor DUTY			Fuel System Status #2		
	Throttle Motor Duty (Open)			IGN Advance		-
TIO COMPANY	Throttle Motor Duty (Close)			Knock Feedback Value		
It's Selerch						_

Diagnosis Screen (Drive Recorder)

#### Apply button

×

Terminates the selection of the Drive Recorder target data. If the Apply button is pressed, the current screen moves to the next Drive Recorder Setup screen. If no data is selected, this button cannot be used.

Select the Drive Recorder trigger classification from this screen. In addition, the length of recording data as well as the proportion of trigger position in relation to overall recorded data can be selected.

Drive Recorder Setup - T	Frigger Metho	d (S602-06)		
Configure the Trigger Met	thod			
1 Trigger :	Manual		•	
2 Duration :	5 s		•	
3 Trigger Point :			50%	
4				
0%			100%	
	<back< td=""><td>Next&gt;</td><td>Cancel</td><td></td></back<>	Next>	Cancel	

Drive Recorder Setup Dialog

1 Trigger Type pull down list

Set the Snapshot trigger classification. Switches to Select Parameter and Trigger Conditions when a parameter is set for the trigger. Trigger classifications can be selected from the following three (Manual, DTC, Parameter).

2 Duration pull down list

Set the Snapshot recording time. Recording time can be selected from the following (5 s, 15 s, 30 s, 60 s, 90 s, 3 min, 5 min)

#### 3 Trigger Point

Displays the trigger position as a numeric value in relation to overall data recording. Change this value from the Trigger Point Gauge.

#### Trigger Point Gauge

Configure the trigger position in relation to overall data recording (0% - 100%). Change the trigger position by dragging the marker.

Perform detailed parameter settings for Drive Recorder triggers from this screen. It is also possible to set the conditions for each parameter.

Drive Recorder Setup - Trigger Method (S602-07)
Select Parameters and Trigger Conditions
1 Record Quantity :
2 < <parameter select="">&gt; &lt; &gt; = × 4</parameter>
< <parameter select="">&gt; &lt; &gt; = ×</parameter>
< <parameter select="">&gt; &lt; &gt; = ×</parameter>
AND OR OR OR Cancel

Parameter Trigger Configuration Dialog

1 Record Quantity

Designate the number of recordings for a parameter trigger. The number of recordings can be set from 1-10. 2 Trigger type button

Moves the current screen to a screen to select parameters for trigger designation. Once a parameter name is selected, the name is displayed on the button.

3 Condition-type

\_ Selects the condition type for each trigger condition value.

4 Parameter value gauge

Designate the parameter condition value. The designated results are reflected in the Parameter Value.

5 Parameter Condition

Selects the AND or OR condition in relation to each set parameter for a specific trigger condition.

6 Back button

\_\_\_ Returns the screen back one Parameter Trigger Configuration value.

7 Finish button

Sets the set trigger condition as a parameter trigger, and moves the current screen to the next screen.
Sets the set trigger condition as a parameter trigger, and moves the current screen to the next screen.

Cancels the setting contents, and returns the current screen to one screen before the Drive Recorder Setup begins.

Snapshot trigger settings can be performed for up to three parameters.

1 Trigger Parameter	^
INJ CLASS #6	
Number of Emission DTC and	
Number of Emission DTC AAA	
Engine Warming Up Signal	
CALC Load	
Control Mode	
Freeze DTC	
Coolant Temp	
PIM	
AFM	
Engine SPD	
MIL Status	
Number of Emission DTC	
Shift	
PNP SW	
Coolant Temp	
02S (AFS) B1 S1	
02S (AFS) B1 S2	~

Parameter Select List Dialog



Trigger Parameter

Select the desired parameter to be used as a trigger.

## SELECT button

Set the selected parameter as a trigger for the called out screen. Closes the screen after settings are performed.

# Back button

Cancels parameter selection and closes the screen.

This screen informs the user when Drive Recorder settings are completed. It also explains the method to reference recorded data.

Drive Recorder Setup (S602-14)	
Drive Recorder setup is now comple To retrieve captured Drive Recorder 1. Slide Drive Recorder switch over 2. Connect USB cable and power c 3. Select "Open Scan Data File" fro	ete. Data: to the "Normal" position. sable to VIM. om the Main Menu.
Tts techstream The Function Setue Tts Liner Inde Connect to Value Open Scan Data File Laureh Tts Rev Liner Corro Check for Sector	Construction (SSO0-87) What would you like to do ? C Open service event file C Retrieve data from Drive Recorder OK Cancel
8a	ck Finish Cancel

Drive Recorder Setup Dialog

#### Drive Recorder Data Import

Drive Recorder Data Import can be performed from Open Scan Data File on the Main Menu Screen. Drive Record Data Import can also be performed from Open on the file menu.

This screen is displayed in order to designate the file acquisition path when opening files. Designate the Event File reference address for your PC by selecting "Open service Event File" and pressing the OK button. Designate the Event File reference address for the VIM (Vehicle Interface Module) by selecting "Retrieve data from Drive Recorder" and pressing the OK button. If the Cancel button is pressed, the file open operation is cancelled.

Tech Stream (\$500-07)	
Would you like to do ?	
Open service event file Retrieve data from Drive	Recorder
ОК	Cancel

Drive Recorder Data Import Dialog

Designate the folder for files to be forwarded to from this screen. The default directory for each user is the directory displayed as the initial data save address When the OK button is pressed, the file is forwarded to the designated directory. When the cancel button is pressed, the operation is cancelled and the file is not sent.

Look 1	9 Generic_English	· + • • •	File Information
Log	74857 PM	(x) 20	06_R) Year, Division, Model, Engine
2004_4R	UNNER_1GR-FE_3-26-2006 60	0547 PM	RB-OI Option
2004_LS4	130_3UZ-FE_2-17-2006 34617 130_3UZ-FE_3-29-2006 25713	7 AM 3 AM	
2004_154	30_3UZ-FE_JTHEN36F24014	7691_3-26-2006 70139 PM	VIN
2005_ES	330_3MZ-FE_JTH8A36G55014	17691_3-9-2006 55327 PM	Memo
2005_ES3	330_3M2-FE_JTHEA36G55014 330_3M2-FE_ITHEA36G55014	17691_3-9-2006 75414 PM	-
2005_ES	330_3MZ-FE_JTHBA36G55014	7691_3-9-2006 92637 PM	
2005_ES3	330_3M2-FE_JTH8A36G55014	17691_3-9-2006 101204 PM	
			5
<	101. 9		
c .oad File	* TSE	LOAD	7
oad File	Event Files (* TSE)		
coad File file Type	Event Files (*.TSE)		

File Dialog

## Health Check

When a Health Check is performed, the target ECU, Monitor Status and Calibration ID are acquired and displayed. The results of the Health Check are added to the Stored Data Tab Event File Tree. However, data cannot be saved as an Event File at this point. To save as an Event File, perform a Save from the File menu.

Techstream (Ver 9 File Function Setup 1	.20.005) - 11460 NS User Help											
System Select Stee	4			6	5	1						
2015 NX200t 8AR-FTS JT5+XAA02770000201 2015 NX200t 7	Tire Pressure / Threshold Sensor 1: 77.9 / 77. Sensor 3: 77.9 / 77. Sensor 5: 77.9 / 77. Health Check Results Enhanced Generic	l Value [p 9 Sensor 2 9 Sensor 4 9	si(( 2: 1:	gauge)] 🗲 77.9 / 77.9 77.9 / 77.9	Com [psi(g Front Rear	jensati gauge)] :	ion Pr	389.8 389.8 389.8		8 PERMANE	ENT: YE!	5
B Health Check	2 System	Monitor	Π	DTC	Conf	Pend	Hist	Test Failed	SB	Calibration	Update	^
Time Stamp     Engine     Navigation S     Tire Pressure     Main Body     Main Body	Engine	Inc	*	P001400 P003012 P007A11 P010012 P011511	×	×		x	2 2 2 2 2 2	0000800,44000000	2	
e Dack Deer				P013A00 P157800 B279966 U012287	××	××		x x x	2 2 2 2 2			
				C2111 C2112 C2113 C2114 C2115 C2121	* * * * *		* * * * *		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
Sort Expand>> TIS Search				C2122 C2123 C2123 C2124 C2125 C2125 C2126	. × × × ×		× × × × × ×		2 2 2 2 2 2			
Print Back 1	2014.05.09 10:43:04 Campaign Status: <u>?</u>									Default User	DLC 3	

Diagnosis Screen (Health Check\_Type1)



Diagnosis Screen (Health Check\_Type2)

1 Campaign status [TIS Function]

Acquires and displays Special Service Campaign information from the TIS server. If "OPEN" or "CLOSED" is displayed, the Campaign status screen is displayed. If "NONE" or "?", the Campaign status screen is not displayed.

If the system is not able to access the SSC information, the SSC Availability will not be displayed.

2 Health Check Results list

Displays a list of Health Check results. If a DTC or Pending FFD exists, the screen moves to the head of the corresponding column, and the row becomes highlighted in yellow.

- System

If there is one or more DTC(s) or Pending FFD, the text displays in red. Click the DTC name to start the DTC function.

- Monitor Status
- Starts the Monitor function. - FFD

For FFD which is available to a DTC (including Pending FFD which is not associated with any DTCs), the icon appears. When clicked, transfer to FFD page.

- DTC, DTC TYPĖ

When a DTC or DTC TYPE in the list is clicked, the DTC or DTC TYPE for the clicked record is displayed. – Enhanced tab

When there is a current, confirmed, pending, past, or latest result DTC, the DTC is displayed in the DTC column and "x" is displayed in the corresponding DTC category column.

- Generic tab

When there is a confirmed, pending, or permanent DTC, the DTC is displayed in the DTC column and "x" is displayed in the corresponding DTC category column.

– SB

Indicates if a Service Bulletin inquiry URL exists. "Yes" is displayed if there is a corresponding SB for the DTC. "Yes" displays the corresponding TSB page in a browser.

- Calibration
- Displays the ECU Calibration ID. "NA" will be displayed in cases where the Calibration ID cannot be acquired.
- Cal.Update [TIS Function]

The TIS Function inquires with TIS and displays the update status of Calibration data. "-" will be displayed in cases where the Calibration ID cannot be acquired. "Yes" will be displayed when updated Calibration data is available. "No" will be displayed when updated Calibration data is available.

In environments where a connection cannot be made to TIS, there are cases when the "Cal. Update?" column may not be displayed.

3 Date / Time

Displays the date and time the Health Check was performed.

**4** Tire Pressure / Threshold Value

Displays the Tire Pressure in red and the Threshold Value in black. When an abnormal tire pressure has been acquired, "N/A" is displayed.

5 Compensation Pressure

Displays the compensation tire pressure.

6 Refresh Tire Pressure button

Tire pressure values from the vehicle are acquired again and displayed.

Health Check Result tab

Enhanced and Generic displays can be switched by selecting the tab.

Results for all systems installed in the vehicle are displayed on Enhanced tab screen and results for only regulation systems are displayed on Generic tab screen.

Permanent DTC Status

When a permanent DTC is detected, "YES" is displayed; when none is detected, "NO" is displayed. This item is shown only when Enhanced tab screen is displayed.

🔯 Time Stamp button

Switches the screen to the Time Stamp screen.

Health Check Report button

Sends the Health Check Report data to the server. A URL is then received from the server and the report is displayed using a web browser.

Clear All DTCs button

Deletes all DTC, freeze frame, monitor status, monitor results information and Information Codes.

New Health Check Reacquires Health Check information, and adds an additional entry in the Stored Data Tab Even File Tree. Displays Health Check results.

#### Note

Items with the "TIS Function" icon attached can only be used in environments where a connection can be made to TIS.

#### System Area Selection

ECU(s) are grouped in categories called "System Areas" such as Powertrain, Chassis, etc. Health Check allows the user to diagnose ECU(s) that belong to a specific system area to shorten the time required to check.

Please select syst ECUs reduce delay	em areas to include in the Health Check. Fewer y and allows Health Check to run faster.
Perform Health ECUs, even the NOTE - This wi	Check on All ECUs (This will recheck all use found to not be present. Il increase Health Check time.)
ECU Selection:	
(rumber of pres	Sent ECOS) / (Number of an ECOS)
Powertrain(3 E	CUs) / (3 ECUs)
Chassis(8 ECU	is) / (8 ECUs)
Body Electrical	(28 ECUs) / (28 ECUs)
Compensation Store All Data Note: The Store A DTC, FFD, 1 and Monitor Storing Time Starr the Health Check. Would you like to	Tire Pressure 6 5 Il Data function will store all System nfo Code, Operation History, Data to the Stored Data tab. Ip Data may add several minutes to include Time Stamp Data?
This function may Press Next to con Help	take a few minutes to complete. tinue. 3 4 Next> Cancel

System Area Selection Dialog

<ul> <li>the system selected in the ECU selection checkbox will be stored.</li> <li>Compensation Tire Pressure check box Select whether to display the compensation tire pressure.</li> <li>Include Time Stamp radio button Select whether to include Time Stamp information in Store All Data.</li> </ul>
Tire Pressure Calculator Utility Input information necessary for calculating the compensation tire pressure.
Tire Pressure Calculator Utility Dialog
<ol> <li>Tire Condition radio button Select the appropriate tire condition.</li> <li>User Input Information Input parameters for calculating the compensation tire pressure.</li> <li>OK button Performs the Health Check.</li> <li>Cancel button Returns the screen to the System Area Selection.</li> </ol>
Campaign Status This screen displays the HTML message received from the server.
Campaign Status Dialog
<ol> <li>Message Area The message received from the server when the Health Check is executed is displayed.</li> <li>Campaign Details Button Opens the campaign details page for the applicable vehicle in the browser.</li> <li>Print button Opens the print screen.</li> <li>Close button Closes the screen.</li> </ol>
Time Stamp
When a Time Stamp is performed, the target ECU are acquired and displayed. The results of the Time Stamp are added to the Stored Data Tab Event File Tree. However, data cannot be saved as an Event File at this point. To save as an Event File, perform a Save from the File menu.

Diagnosis Screen (Time Stamp)

1 Current Key Cycle
Displays the "Key Cycle" included in the Current Time information.
2 Current Key Cycle Elapsed Time
Displays the "Elapsed Time" included in the Current Time information.
3 Time Stamp list
Displays all the detected DTC records and Time Stamp information.
If the Time Stamp function is not supported, highlights the records of the system in gray.
- System
Displays the system name for the DTC (including Pending FFD).
- Time and Date/ODO
Displays the "Time and Date" for the system.

- When ECU is supported, the travel distance is also displayed.
- Key Cycle
   Displays the "Key Cycle" included in the Time Stamp information.
   Elapsed Time
- Displays the "Elapsed Time" included in the Time Stamp information.
- Туре
  - Displays the following depending on the "Clock Type". Normal Clock: "-" Independent Clock (IG): "IG" Independent Clock (ACC): "ACC" Independent Clock (+B): "+B"
  - Independent Clock (+B): "+B" Independent Clock (other): "x"
- Independent C – DTC
- Displays the DTCs present. If the DTC type is Pending DTC, feed a line and add "Pending".
- **4** DTC Description
  - \_ Displays details concerning the selected DTC.
- 5 Combo Box / Dropdown List
  - Displays "All Systems" and systems with one or more DTCs.

#### System Area Selection for Time Stamp

ECU(s) are grouped in categories called "System Areas" such as Powertrain, Chassis, etc. Time Stamp allows the user to diagnose ECU(s) that belong to a specific system area to shorten the time required to check.



System Area Selection for Time Stamp Dialog

 ECU Select check box Select the Time Stamp System Area.
 Next button Performs the Time Stamp.
 Cancel button Cancels the Health Check.

# Calibration Update Check

Press the ECU Reprogramming button on the System Select display.

The Calibration Update Check screen displays whether or not there is a Calibration ID and update for vehicles with ECU's designed for Reprogramming. If there is an update, a link to TIS is displayed. TIS can be displayed by clicking the link.

7 Camry HV CFXE	Calibration Update Check List							
0005 051 5224	1 2 System	3 Calibration ID	4 Calibration Update					
	P Engine and ECT	33365100	Yes					
		53338000	Yas					
	R Hybrid Control	33365100	Yes					
		63338000	Yes					
		XYZ(YZ01	Yes					
		XYZXY202	Yes					
	1	XYZCYZ03	Yes					
		XYZ(YZ04	Yes					
		XYZ(YZ05	Yes					
		XYZ(Y206	Yes					
	R Smart Access / Smart Key / Weeless Turier							
	in ever		-					
TIS Search								
	6							

Diagnosis Screen (Calibration Update Check List)

1	Select	Check	Box
-	001000	Oncor	

Allows the target for the Calibration Check to be selected from among the displayed ECU's. When the Cal Check button is pressed, the calibration check will be performed on only the checked ECU.

2 System

Displays a list of ECU's under diagnosis that are designed for reprogramming and installed on the vehicle. 3 Calibration ID

Displays the Calibration ID for each installed ECU. ECU's consist of a number of CPU's. ECU's are displayed in multiple rows. "N/A" is displayed for ECU's for which a Calibration ID cannot be acquired.

4	Calibration Update [TIS Function]
	Displays whether or not reprogramming is necessary for the Calibration ID acquired from the vehicle (refer to
	above). The Calibration ID check is displayed as the results of the inquiry with TIS. If reprogramming is
	necessary, "Yes" will be displayed as a link to the Calibration download site. To perform reprogramming, click
	the link to start TIS. When the target Calibration File on the TIS site is clicked, the file will be downloaded and
	the Calibration Update Wizard will start.
	If " $N/A$ " is displayed for the Calibration ID, the Calibration Undate function cannot be used. The Calibration

If "N/A" is displayed for the Calibration ID, the Calibration Update function cannot be used. The Calibration Update column will not be displayed for Tech Streams that do not have TIS connection information.

#### 5 Cal Check button

Acquires the Calibration ID for the ECU selected in the Calibration Update Check List from the vehicle. This Calibration ID is checked on TIS to verify whether or not updating is necessary.

6 Check All check box

Inserts or removes checks from all checkboxes on the Calibration Update Check List.

#### 7 Date / Time

Displays the date and time the Cal Check was performed.

#### Note

The screen below is displayed for environments in which TIS cannot be used. The Calibration ID's for vehicles with ECU's designed for reprogramming are displayed. The TIS link is not displayed.

115 techstream - 1	734					
File Function Setup T	5 User Help					
System Select Sto	ed Data CAL Update					
2007 Camry HV 2AZ-FXE	Calibration Update Check List					
Input VIII	1 Z System	Calibration ID				
	Image: Ecr         Image: Ecr					
Clase	7/13/2006 2:15:49 AM 6					

Diagnosis Screen (Calibration Update Check List)

1 Select Check Box

Allows the target for the Calibration Check to be selected from among the displayed ECU's. When the Cal Check button is pressed, the calibration check will be performed on only the checked ECU.

- 2 System
- Displays a list of ECU's under diagnosis that are designed for reprogramming and installed in the vehicle. Calibration ID

Displays the Calibration ID for each installed ECU. ECU's consist of a number of CPU's. ECU's are displayed in multiple rows. "Not Reprogrammable" is displayed for ECU's for which a Calibration ID cannot be acquired. Cal Check button

Acquires the Calibration ID from the vehicle for the ECU selected in the Calibration Update Check List . This Calibration ID is checked on TIS to verify whether or not updating is necessary.

- 5 Check All check box
  - Inserts or removes checks from all checkboxes on the Calibration Update Check List.
- 6 Date / Time

Displays the date and time the Cal Check was performed.

# **CAN Bus Check**

Press the CAN Bus Check button on the System Select display.

When performing a CAN Bus Check, it is possible to display a list of all ECU's connected to the CAN bus.

Techstream (Ver 7	.00.009) - 11148						
File Function Setup TIS User Help							
System Select   Stored Data   Bus Check							
2013 GS450h 2GR-FXE 898750 mile AMASAALADAAAAAA	Communication Bus Check CAN Bus Check will refresh automatically. Please reference the repair manual to determine which ECUs shou White = Currently communicating on the CAN BUS Yellow = Communication re-established on the CAN Red = No longer communicating on the CAN BUS.	ald be present. N BUS.					
	Centification (Smart)	D-Door Motor	~				
	ECM (Engine) Hybrid Vehicle Control	Freet Right Sext AC bud Control (ADISA/SO/TRAZ)					
Print Close							

Diagnosis Screen (CAN Bus Check)

1 Combo Box / Dropdown List

```
Display "ALL", "V Bus" and confirmed G/W ECU's in the Dropdown list.
```

2 CAN Bus Check List

Displays All systems, systems connected to V Bus, or systems connected to G/W ECU according to the selected item in the Combo Box. Continuously communicates with ECUs and updates the list when the connection status changes. Change the background color according to the connection status changes that have happened.

- Continuously detected without a problem: White
- Lost connection once, but now detected: Yellow
- Detected once, but not detected now: Red
- Included in V Bus, but not detected at all:

Communication Malfunction Check button

Transition to Communication Malfunction Check screen.

#### Store button

<u>Collects</u> and stores CAN Bus Check results and Communication DTCs.

#### Refresh Button

When clicked, updates the results by communicating with the same ECUs as the previous time.

# **Communication Malfunction Check**

When performing a Communication Malfunction Check, it is possible to display the communication malfunction DTCs from all system DTCs in the vehicle.

🕐 Techstream (Ver )	.00.009) - 11148			1
File Function Setup	TIS User Help			
System Select Store	d Data Bus Check			_
2013 GS450h 2GR-FXE	Communication Malfunction	n		
898750 mile	1 System	DTC	Description	
AAAASAALADAAAAAAA	Engine	U0100	Lost Communication with ECM/PCM "A"	
		-		
	1			M
TIS Search				
Print				
Close				2
5604-07			Default User DLC 3	٠

Diagnosis Screen (Communication Malfunction Check)

### 1 Communication Malfunction List

Displays communication malfunction DTCs and the corresponding system names. System without any DTC is not displayed.

#### Back button

Transition to the CAN Bus Check screen.

### Store button

Collects and stores CAN Bus Check results and Communication DTCs.

# Sefresh Button

When clicked, update the results by doing the same communication as the initial one.